

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032522\  
 Data File : VX027696.D  
 Acq On : 25 Mar 2022 12:31  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/26/2022  
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 25 13:58:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 25 13:56:08 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 63014      | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 110891     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 95170      | 50.000   | ug/l  | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 41990      | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 6207       | 7.810    | ug/l  | -0.01    |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 15.620%# |       |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 3825       | 5.577    | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 11.160%# |       |          |
| 50) Toluene-d8               | 8.653          | 98   | 13634      | 5.250    | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 10.500%# |       |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 5423       | 5.550    | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 11.100%# |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 3418       | 5.456    | ug/l  | 99       |
| 3) Chloromethane             | 1.295          | 50   | 4034       | 7.177    | ug/l  | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 3584       | 5.680    | ug/l  | # 74     |
| 5) Bromomethane              | 1.599          | 94   | 1715       | 5.215    | ug/l  | 85       |
| 6) Chloroethane              | 1.679          | 64   | 2407       | 6.307    | ug/l  | # 83     |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 5552       | 5.468    | ug/l  | 95       |
| 8) Diethyl Ether             | 2.136          | 74   | 2120       | 5.634    | ug/l  | 75       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 3559       | 5.802    | ug/l  | 96       |
| 10) Methyl Iodide            | 2.453          | 142  | 2604       | 3.351    | ug/l  | 90       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 4445       | 28.729   | ug/l  | 98       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 3654       | 6.192    | ug/l  | 96       |
| 13) Acrolein                 | 2.239          | 56   | 3921       | 33.932   | ug/l  | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 6373       | 6.570    | ug/l  | # 86     |
| 15) Acrylonitrile            | 3.063          | 53   | 11641      | 32.643   | ug/l  | 97       |
| 16) Acetone                  | 2.386          | 43   | 11925      | 36.412   | ug/l  | # 86     |
| 17) Carbon Disulfide         | 2.508          | 76   | 9112       | 6.034    | ug/l  | # 95     |
| 18) Methyl Acetate           | 2.709          | 43   | 5876       | 7.179    | ug/l  | # 84     |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 12486      | 6.118    | ug/l  | 94       |
| 20) Methylene Chloride       | 2.794          | 84   | 4010       | 5.772    | ug/l  | # 88     |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 3705       | 5.879    | ug/l  | 96       |
| 22) Diisopropyl ether        | 3.764          | 45   | 13945      | 7.429    | ug/l  | # 80     |
| 23) Vinyl Acetate            | 3.727          | 43   | 56412      | 34.364   | ug/l  | # 89     |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 7412       | 6.548    | ug/l  | 98       |
| 25) 2-Butanone               | 4.562          | 43   | 20037      | 40.027   | ug/l  | 89       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 5631       | 6.269    | ug/l  | 89       |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 4349       | 5.953    | ug/l  | 80       |
| 28) Bromochloromethane       | 4.910          | 49   | 3183       | 7.029    | ug/l  | # 76     |
| 29) Tetrahydrofuran          | 5.019          | 42   | 12482      | 39.968   | ug/l  | # 82     |
| 30) Chloroform               | 5.099          | 83   | 8471       | 6.982    | ug/l  | 88       |
| 31) Cyclohexane              | 5.471          | 56   | 6865       | 6.924    | ug/l  | 92       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 6764       | 6.175    | ug/l  | 94       |
| 36) 1,1-Dichloropropene      | 5.702          | 75   | 6401       | 6.544    | ug/l  | # 80     |
| 37) Ethyl Acetate            | 4.727          | 43   | 7569       | 7.507    | ug/l  | # 90     |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 6009       | 5.505    | ug/l  | 93       |
| 39) Methylcyclohexane        | 7.385          | 83   | 6847       | 5.568    | ug/l  | # 88     |
| 40) Benzene                  | 6.044          | 78   | 16701      | 5.907    | ug/l  | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032522\  
 Data File : VX027696.D  
 Acq On : 25 Mar 2022 12:31  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/26/2022  
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 25 13:58:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 25 13:56:08 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 3905m    | 7.091   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 7369     | 6.784   | ug/l   | 91       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 10674    | 6.506   | ug/l # | 90       |
| 44) Trichloroethene           | 7.129  | 130  | 4182     | 5.048   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 4230     | 5.839   | ug/l   | 100      |
| 46) Dibromomethane            | 7.586  | 93   | 3310     | 6.038   | ug/l # | 80       |
| 47) Bromodichloromethane      | 7.824  | 83   | 5857     | 5.644   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 4859     | 5.995   | ug/l   | 86       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 2116     | 108.433 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 34949    | 33.457  | ug/l   | 90       |
| 52) Toluene                   | 8.720  | 92   | 9822     | 5.324   | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 4746     | 4.507   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.373  | 75   | 5716     | 4.950   | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 3861     | 5.169   | ug/l   | 87       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 5576     | 4.866   | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 6957     | 5.593   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.245  | 63   | 15814    | 28.734  | ug/l   | 89       |
| 59) 2-Hexanone                | 9.433  | 43   | 24829    | 30.905  | ug/l   | 85       |
| 60) Dibromochloromethane      | 9.525  | 129  | 3629     | 4.474   | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 9.616  | 107  | 4314     | 5.262   | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.275  | 164  | 3924     | 5.441   | ug/l   | 89       |
| 65) Chlorobenzene             | 10.080 | 112  | 10610    | 5.491   | ug/l   | 89       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 3412     | 4.786   | ug/l   | 96       |
| 67) Ethyl Benzene             | 10.195 | 91   | 18901    | 5.596   | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.305 | 106  | 13719    | 10.434  | ug/l   | 87       |
| 69) o-Xylene                  | 10.647 | 106  | 6969     | 5.465   | ug/l   | 90       |
| 70) Styrene                   | 10.659 | 104  | 10215    | 4.903   | ug/l # | 86       |
| 71) Bromoform                 | 10.799 | 173  | 2403     | 4.270   | ug/l # | 96       |
| 73) Isopropylbenzene          | 10.964 | 105  | 18164    | 5.867   | ug/l   | 96       |
| 74) N-amyl acetate            | 10.842 | 43   | 7970     | 6.820   | ug/l # | 84       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 6563     | 6.580   | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 6311m    | 6.901   | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 3971     | 5.260   | ug/l   | 79       |
| 78) n-propylbenzene           | 11.305 | 91   | 20570    | 5.973   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 13338    | 6.192   | ug/l   | 90       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 15120    | 5.796   | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 1339     | 4.512   | ug/l # | 53       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 15246    | 6.193   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 13779    | 5.404   | ug/l   | 82       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 15209    | 5.834   | ug/l   | 93       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 18167    | 5.826   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 13664    | 5.154   | ug/l   | 91       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 7636     | 5.417   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 7680     | 5.376   | ug/l   | 88       |
| 89) n-Butylbenzene            | 12.335 | 91   | 12893    | 5.727   | ug/l   | 95       |
| 90) Hexachloroethane          | 12.543 | 117  | 2026     | 4.816   | ug/l   | 74       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 7067     | 5.119   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 1342     | 5.821   | ug/l   | 73       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 3845     | 4.333   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 1812     | 4.594   | ug/l   | 93       |
| 95) Naphthalene               | 13.780 | 128  | 13608    | 4.665   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 3743     | 4.185   | ug/l   | 93       |

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Acq On : 25 Mar 2022 12:31  
Operator : JC/MD  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/26/2022  
Supervised By :Mahesh Dadoda 03/28/2022

Quant Time: Mar 25 13:58:46 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032522W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 25 13:56:08 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

